

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/28890

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : F01D 1/36

US CL : 415/71, 80, 81, 90, 143

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 415/25, 53.1, 53.2, 53.3, 63, 71-75, 80-82, 90, 143, 170.1, 199.1, 199.2, 226; 416/4, 176, 177

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 1,586,160 A (MAURON et al) 25 May 1926 (25.05.1926), column 1, lines 25-50.	1-3, 7, 15
X	US 3,535,051 A (TURNER) 20 October 1970 (20.10.1970), column 2, lines 41-72.	1-3, 7, 15
X	US 3,250,458 A (CALDWELL) 10 May 1966 (10.05.1966), column 2, lines 1-63.	1-5, 7, 15
X	US 4,668,160 A (MASE et al) 26 May 1987 (26.05.1987), column 2, lines 37-60.	1-5, 7, 15
X	US 4,732,529 A (NARITA et al) 22 March 1988 (22.03.1988), column 2, lines 64-68, column 3, lines 1-18.	1-7, 15
X	US 2,245,035 A (HARTMAN) 10 June 1941 (10.06.1941), column 1, lines 33-55, column 2, lines 1-42.	1-3, 7, 15
X	US 4,242,039 A (VILLARD et al) 30 December 1980 (30.12.1980), column 2, lines 43-68, column 3, lines 1-68.	1-3, 7, 15
X	US 5,297,926 A (NEGISHI) 29 March 1994 (29.03.1994), column 4, lines 7-24, column 5, lines 55-68, column 6, lines 1-22, figures 3, 6a-6b.	1, 8-9, 13
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Y		14

☒ Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

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"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

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later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

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Date of the actual completion of the international search

15 May 2005 (15.05.2005)

Date of mailing of the international search report

08 JUN 2005

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INTERNATIONAL SEARCH REPORTInternational application No.
PCT/US04/28890**C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4,452,566 A (KARDAS) 05 June 1984 (05.06.1984), column 4, lines 33-68, column 5, lines 1-37.	1, 8-9